

DATE: NOVEMBER 2, 2004

## ATA JOB OPENING ANNOUNCEMENT

REQUISITION: ATA 2064

CLASSIFICATION: ENGINEERING TECHNICIAN III

LOCATION: INTEGRATED TEST & EVALUATION DEPT. - SPACE & MISSILE PRODUCTS (TE44)

(This is a position in Tunnel 9 - there will be no relocation for this position)

### TRAINING AND EXPERIENCE

#### MINIMUM REQUIREMENTS:

Two years college with courses in computer science, mathematics, or other related engineering courses, plus two years of related experience in data reduction and analysis, or any equivalent combination of relevant education and experience for a total four years. Experience in a testing organization instrument lab is a plus. Basic understanding of schematics, diagrams, and engineering drawings required. General mechanical aptitude is required - experience in general mechanical equipment maintenance and repair a plus. Work requires familiarity with the interrelationships of circuits and judgment in planning work sequence and in selecting tools and testing instruments. Candidate must be highly organized, detail oriented, careful, and capable of working with very sensitive transducers and fine grade wiring. Candidate must be comfortable working in a flexible, team environment wherein mutual support and assistance is frequently necessary over a wide range of craft disciplines to meet team and facility goals and schedules.

### DUTIES & RESPONSIBILITIES

Primary duties and responsibilities will be in the AEDC White Oak Model Instrumentation Lab and wind-tunnel test section area where employee will be trained to work independently or directly with a group of engineers and technicians responsible for wind tunnel testing, test article preparation and installation, and test facility operation and maintenance. In addition, employee will be trained in general maintenance, repair, operation, and testing of various wind tunnel mechanical and/or electrical systems to eventually provide support when required.

Selects or adapts standard procedures or equipment, using fully applicable precedents. Receives initial instructions, equipment requirements, and advice from experience technician or engineer as needed; performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

- Installing, fabricating, maintaining, and repairing test article instrumentation including pressure transducers, force and moment balances, thermocouples and heat transfer sensors, etc. Specific work tasks include:
  - Planning sequence of tasks, usually from blueprints, sketches, written or oral information supplied by more experienced engineers or technicians. Works from specifications detailing only the final working requirements of simple pieces or components.
  - Laying out work. Setting-up and operating various standard and specialized hand tools.
  - Devising simple housings, mountings, casings, fittings, etc.
  - Devising specialized hand tools, templates, jigs, fixtures, and securing devices for simple installation or testing situations.
  - Connects transducers and assembles wire bundles, securing bundle routing, by soldering, brazing, or otherwise fastening parts together. Installations are typically delicate, using fine grade wires assembled into large bundles, which require extreme care in precision.
  - Checking work with gages, meters, and various other precision measuring instruments and reports results to more experienced technician or system engineer.

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**DUTIES & RESPONSIBILITIES (CONT'D)**

- Ensuring critical repair/replacement parts and transducers are established and maintained, including ordering additional parts and supplies when needed.
- Maintaining records of transducer calibrations, inventory, use, repair along with continually updated work instructions and procedures for areas of responsibility.
- Working closely with engineers and other technicians during wind tunnel test article preparation, assembly, installation into the facility, testing, removal from the facility, and preparation for shipping.
- Participating in tests by setting up models in test stands or other test situations. Obtaining, interpreting, and taking action on test data in conjunction with experienced engineers and technicians.
- Participating in maintains and repairing wind tunnel test articles or alters them as required for further tests. Maintaining detailed records of alterations made to wind tunnel test articles.
- Providing general mechanical or electrical technician support to experienced system technicians during operation, maintenance, repair, and improvement of wind tunnel test systems. This may require working in cramped or confined spaces on occasion. May require forklift training/operation.
- Assisting the facility operations and maintenance team in general housekeeping, safety, industrial hygiene, and facilities upkeeps tasks as assigned by the Operations Team Leader.
- Performs other duties as required.